Raw Sequence Listing Error Summary

ERROR DETECTED	SUGGESTED CORRECTION	SERIAL NUMBER: *09/555,296*

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

1_____Wrapped Nucleics Wrapped Aminos
The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."

2_____Invalid Line Length
The rules require that a line not exceed 72 characters in length. This includes white spaces.

3_____Misaligned Amino Numbering
The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.

4_____Non-ASCII
The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.

5_____Variable Length
Sequence(s)____contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.

6_____PatentIn 2.0 "bug"
A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. **This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.**

7_____Skipped Sequences (OLD RULES)
Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
(i)   SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
This sequence is intentionally skipped

Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.

8_____Skipped Sequences (NEW RULES)
Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence.
<210> sequence id number
<400> sequence id number
000

9___Use of n's or Xaa's (NEW RULES)
Use of n's and/or Xaa's have been detected in the Sequence Listing.
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

10_____Invalid <213> Response
Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence

11_____Use of <220>
Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32)   (Sec. 1.823 of Sequence Rules)

12_____PatentIn 2.0 "bug"
Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

13_____Misuse of n
n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.

AMC/MH – Biotechnology Systems Branch – 08/21/2001

1647

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RAW SEQUENCE LISTING              DATE: 03/19/2002
PATENT APPLICATION:  US/09/555,296    TIME: 15:05:55

Input Set : A:\PTO.VSK.txt
Output Set: N:\CRF3\03192002\I555296.raw
```

pp 1-3

Does Not Comply
Corrected Diskette Needed

```
   3 <110> APPLICANT: NUTALL, PATRICIA
   4        OXFORD VACS LTD
   5        PARSON, GUIDO CHRISTIAN
   7 <120> TITLE OF INVENTION: HISTAMINE AND SEROTONIN BINDING MOLECULES
   9 <130> FILE REFERENCE: Oxford Vacs - Histamine and Serotonin
  11 <140> CURRENT APPLICATION NUMBER: US/09/555,296
  12 <141> CURRENT FILING DATE: 2000-09-13
  14 <160> NUMBER OF SEQ ID NOS: 31
  16 <170> SOFTWARE: PatentIn Ver. 2.1
```

ERRORED SEQUENCES

```
  755 <210> SEQ ID NO: 20
  756 <211> LENGTH: 1046
  757 <212> TYPE: DNA
  758 <213> ORGANISM: Boophilus microplus
  760 <400> SEQUENCE: 20
  761 gatggcgctc agatttgcac ttctgctggc gtgcatcgtc acggcatgtg gctggagaac 60
  762 acggattcaa gagaaaggtc ccgagaacaa ccctctcatg aacacccaac gtttgggaaa 120
  763 aatgcaagac gcatggaaga gtctggaaaa ggcaacaaat cagtcgtatg tcttggtgtt 180
  764 ccgctcaaga aatcacgaac cagagatatc ctgcgtgtac gtgagggcta gtaatataaa 240
  765 taatgacact aaaactgcaa cttataccag aacatattac aatatgacgg caaacgcaac 300
  766 catgacggtg aattatactg caagagctct gaagcaagtg gactatgagt cggaaaatgt 360
  767 cgtacgagta aacctgacag gtggggtccc cagcaacgat acagttcctc ttggaagcta 420
  768 cgaatacgtc gagtacggta attactcctg caatagctca tcgacaccct ttttggatgc 480
  769 tgtgcaaatg gcatcgcaag ggcaatccag agggccggat atcgaagggc gcacatatct 540
  770 agacttctac gtcgtctaca atcaaccatc gtgcaatgtc ctgaagtccc cgctcctggg 600
  771 aggtgcttgt gacttttggg tgacagaatc cgagttgcaa aaagcactaa ataagacatc 660
  772 agagaagaaa aaaacaaagc tagaagcgag agcaaggaaa gctggaggag attccgatga 720
  773 ccagggacct gaactggagg tcgtcttcaa aaatctgccc cctccctgcc gcgcagcgtt 780
  774 cataacttcc tgcggctatc caacttttct tatgtacaac aagaccatct gtaatcgaac 840
  775 ggattctgct gcggtgtgaa cgtcccctgc gagcaagtag aacgtccgtg aagacagcag 900
  776 gaagatagtt gactgttttg ttggcggaat gtgactacta gtctgaatca ttaaaaagat 960
E--> 777 tcngctgacg ggtgtggcgg gaactttttt aaatgaaatt ggtcatactt gttgaaagac 1020
  778 aaaaataaaa caatatgtta ctcctc                                     1046
  805 <210> SEQ ID NO: 22
  806 <211> LENGTH: 1156
  807 <212> TYPE: DNA
  808 <213> ORGANISM: Boophilus microplus    p.2
  810 <400> SEQUENCE: 22
  811 cgaagagcag gtacgattcg aatctttgca atggacattc gcagcgctgt tttgttcgcg 60
  812 tgcatcgtct cggcgtgttg tggctttgg cgctggacaa cacggagggt aactaaaaag 120
```

) see item 9 on Error Summary Sheet

RAW SEQUENCE LISTING   DATE: 03/19/2002
PATENT APPLICATION: US/09/555,296   TIME: 15:05:55

        Input Set : A:\PTO.VSK.txt
        Output Set: N:\CRF3\03192002\I555296.raw

```
      813 cctgataaca gccctctgtt gaacaaccaa catcttggtc ttttccagga cgcatggaag 180
      814 actatagaag agacgtccaa tgatacgtat gtcctgatgt tccgctcaaa acattacgac 240
      815 cacgagaaca aggctaaatg tgtcttcgta acggcaaata ttactgactc ccggaacaaa 300
      816 actgccaatt acacaataac gtattacgat actacaacaa atacatccaa caattttaca 360
      817 atcccagtga gagctctgaa ccaaactgac tactcactag aaaatgtgat tcgagcaagc 420
      818 ttcaacggcg acactccaag ctctactcca gcccctcccg gaagcagcgt gtacattcag 480
      819 tataataatg ttacctgcta cgcccaatat cacccatttt caaataatgg aatcagtgca 540
      820 aaatatgatg aaatgccccg ggatggccga aattacttgt tcgacaattt tattggtgct 600
      821 tacttggact tctacgtggt gttcagccag ccgacatgca acgttctcag agtccgagaa 660
      822 ggatgtgact tctggctaag gaaaactgag ttgccaagcc tactgaaagc agcagaaaat 720
      823 gatgacaacg ataacacgga atcgctgaag aactattggg aaagaagaat aaataatact 780
      824 aaaacaagat ttcgacataa tactaagaaa tgtaagatgt acgtacaacg ttattcaatt 840
      825 gagaaggctg aagatgtctt taaaaacact gcttttaaac acctcccctc cgactgccgc 900
      826 tttgccttcc tggccgcttg tggaaatcca gcattcacaa tatacgaccc agaaacatgt 960
      827 aatagctccc tgccagctaa tatggcagaa agttaaatga gctatttcac ttcatgttcg 1020
      828 accgtatgcc tggtatgcaa gaaggtgagg ttggacagga tacttccgaa ttattttttc 1080
E--> 829 agtctgcctt gtacgcacga aataacaaaa tatctgttga agcconncaac nnnnnnaana 1140
E--> 830 anaaaaaana aaaaaa                                                 1156
```

<210> 23
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: reverse
     trancriptase polymerase primer

<400> 23   → *see item 9*
aayggnnarc aycargaygc ntggaa   26

<210> 24
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: reverse
     transcriptase polymerase primer

<400> 24   → *item 9*
ktrtmrtcng tnryccamar ytcrta.   26

Input Set : **A:\PTO.VSK.txt**
Output Set: **N:\CRF3\03192002\I555296.raw**

L:11 M:270 C: Current Application Number differs, Replaced Current Application Number
L:777 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:20
L:829 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:22
M:340 Repeated in SeqNo=22
L:844 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:23
L:844 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:23
L:844 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23
L:857 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:24
L:857 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:24
L:857 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24